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PART 10

TRAFFIC CONTROLS FOR

HIGHWAY-LIGHT RAIL TRANSIT

GRADE CROSSINGS



STATE OF CALIFORNIA
BUSINESS, TRANSPORTATION AND HOUSING AGENCY
DEPARTMENT OF TRANSPORTATION

**PART 10. TRAFFIC CONTROLS FOR HIGHWAY-LIGHT
RAIL TRANSIT GRADE CROSSINGS**

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CHAPTER 10A. GENERAL

Section 10A.01 Introduction

The following is added to this section:

Support:

The highway agency or authority with jurisdiction over the roadway and the light rail transit agency or authority jointly conduct an engineering study to determine the need and selection of the traffic control devices at a highway-light rail transit grade crossing. The engineering study is reviewed by the California Public Utilities Commission (CPUC), the state regulatory agency with statutory authority over highway-light rail transit grade crossings. Refer to Public Utilities Code Section 1202(a).

Section 10A.02 Use of Standard Devices, Systems, and Practices

Standard:

Paragraph 5 (“Before any new...”) is deleted and replaced with the following:

Before any new highway-light rail transit grade crossing traffic control system is installed or modifications are made to an existing system, approval shall be obtained from the California Public Utilities Commission. Refer to California Public Utilities Commission General Order 88, as amended, and Public Utilities Code, Sections 1201 – 1205, 7537, and 99152.

**CHAPTER 10B. HIGHWAY-LIGHT RAIL TRANSIT GRADE
CROSSING CONTROL SYSTEMS**

Support:

No Comments.

This MUTCD Chapter is adopted as is for California.

CHAPTER 10C. SIGNS, ILLUMINATION, AND MARKINGS

Section 10C.02 Highway-Rail Grade Crossing (Crossbuck) Sign (R15-1) and Number of Tracks Sign (R15-2)

Standard:

Paragraph 4 (“If automatic gates...”) is deleted and replaced with the following:

If a Crossbuck (R15-1) sign is being used and if there are two or more tracks at the highway-light rail transit grade crossing, the number of tracks shall be indicated on a supplemental Number of Tracks (R15-2) sign of inverted T shape mounted below the Crossbuck sign in the manner and at the height indicated in Figure 10C-1.

Section 10C.05 DO NOT STOP ON TRACKS Sign (R8-8)

Guidance:

In Paragraph 3 (“On divided highways...”), the word “may” is changed to “should”.

Section 10C.15 Highway-Rail Grade Crossing Advance Warning Signs (W10 Series)

Standard:

In Paragraph 1 (“A Highway-Rail Grade...”), sub-headings B, C and D are deleted in their entirety. Refer to CVC 21362.

Paragraph 2 (“Placement of...”) is deleted. Placement of the Highway-Rail Grade Crossing Advance Warning (W10 Series) signs shall be in accordance with Figure 8B-6 (CA).

The following is added to this section:

Standard:

The Highway-Rail Grade Crossing Advance Warning (W10 Series) signs shall be placed by the roadway authority in advance of highway-light rail transit grade crossings on State highways, and roadways under local jurisdiction, in accordance with CVC 21362.

The Number of Tracks (CA Code W48) sign shall be placed below the Highway-Rail Grade Crossing Advance Warning (W10-1) sign and at grade crossings with two or more tracks.

Support:

The Number of Tracks (CA Code W48) sign is shown in Figure 10C-101.

Section 10C.23 Pavement Markings

Standard:

The MUTCD Figures 10C-5 and 10C-6 are deleted and replaced with Figures 8B-6 (CA) and 8B-7 (CA), respectively.

Paragraph 3 (“Identical markings...”) and 4 (“Pavement markings shall...”) are deleted and replaced with the following:

Identical (RXR) markings shall be placed in each approach lane on all paved approaches to highway-light rail transit grade crossings.

Guidance:

Paragraph 5 (“When pavement markings...”) is deleted. Figures 8B-6 (CA) and 8B-7 (CA) should be used instead.

The following is added to this section:

Option:

Pavement markings and no-passing zone markings may be omitted at exempt highway-light rail transit grade crossings as provided in CVC 22452 and 22452.5.

Pavement (RXR) markings may be omitted where the distance between a cross street and a railroad is less than 15 m (50ft).

Figure 10C-101. California Signs for Highway-Light Rail Transit Grade Crossings

Note: All sign codes are California (CA) Codes.

Section 10C.101 Trolley Crossing Signs (CA Code W82 and W82-1)**Option:**

The Light Rail Transit (Trolley) Crossing sign (CA Code W82) may be used in advance of a light rail transit crossing controlled by traffic signals or stop signs.

The Light Rail Transit (Trolley) Crossing /LOOK BOTH WAYS sign (CA Code W82-1) may be used on driveways and alleys that cross a one-way street with two-way light rail transit side running operation, to alert vehicle drivers and pedestrians that the light rail transit vehicles approach from both directions.

Support:

The W82 and W82-1 (CA Codes) signs are shown in Figure 10C-101.

CHAPTER 10D. HIGHWAY-LIGHT RAIL TRANSIT ACTIVE TRAFFIC CONTROL GRADE CROSSING SYSTEMS

Section 10D.01 Introduction

Standard:

Paragraph 4 (“Audible devices...”) is deleted and replaced with the following:

Where flashing light signals are installed, audible devices shall conform to the provisions of Section 8D.02.

Support:

California Public Utilities Commission General Order 143, “Safety Rules and Regulations Governing Light-Rail Transit”, as amended, governs the operation and allowable speeds of light rail transit systems.

Section 10D.04 Four-Quadrant Gate Systems

Standard:

Paragraph 7 (“Except as noted...”) is deleted and replaced with the following:

The exit gate arm mechanism shall be designed to fail-safe in the up position. Refer to CPUC General Order 75, as amended.

Option:

Paragraph 19 (“Exit gate arms may fail...”) is deleted. Refer to CPUC General Order 75, as amended.

Section 10D.08 Pedestrian and Bicycle Signals and Crossings

Guidance:

In Paragraph 3 (“Flashing-light signals...”), the phrase “Flashing-light signals (see Figure 10D-2) with a Crossbuck (R15-1) sign should be installed ...” is changed to “Flashing-light signals (see Figure 10D-2) with a Crossbuck (R15-1) sign and audible warning device shall be installed ...”. Refer to CPUC General Order 75-C.

The following is added to this section:

Standard:

Flashing light signals shall conform to the provisions of Section 8D.02.